

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:

A61B 5/02

(11) International Publication Number: WO 97/24980

(43) International Publication Date: 17 July 1997 (17.07.97)

(21) International Application Number:

PCT/AU96/00841

(22) International Fliing Date:

30 December 1996 (30.12.96)

(30) Priority Data:

PN 7407

4 January 1996 (04.01.96)

AU

(71) Applicant (for all designated States except US): CIRCUITRY SYSTEMS LIMITED [-/-]; 3 Bell Lane, Gibraltar (GI).

(72) Inventor; and

(75) Inventor/Applicant (for US only): GRACE, Robert, John [AU/AU]; 44 Kintore Avenue, Prospect, S.A. 5082 (AU).

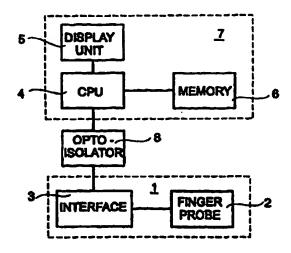
(74) Agent: HORSBURGH, Mark; Fisher Adams Kelly, Level 13 AMP Place, 10 Eagle Street, G.P.O. Box 1413, Brisbane, OLD 4000 (AU).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, IP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BB, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

With international search report.
With amended claims.

(54) Title: BIOENERGETIC DATA COLLECTION APPARATUS



(57) Abstract

A Bioenergetic Data Collection Apparatus utilizing a modified eximeter (1) to collect signals characteristic of blood flow in terminal tissue, such as a finger tip (12). A processing means (7) in signal connection with the modified eximeter (1) receives and analyzes the signals to produce pulse waveforms, or a pulse waveform sequence, that is displayed on a high resolution video display (5). An isolation means (8) is provided between the modified eximeter (1) and the processing means (7) to ensure no lethal voltages can threaten a patient. A variety of sids are provided to assist an appropriately skilled practitioner to make a prognosis from the displayed data. The tools include measurement of the ratio of heart activity to heart rest, variation in systolic pulse amplitude, variation in pulse shape, etc.

cv/

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AM	Atmenia	G3	United Kingdom	MW	Malareri
AT	Austria	GE.	Georgia	MX	Mezico
AU	Australia	GN	Grinca	NE	Niger
188	Barbados	GR	Greece	NI.	Netherlanda
32	Belgham	BU	Hungary	NO	Norway
87	Burtina Peso	12	Ireland	NZ	New Zealand
BG	Bulgaria	iī	kaly	PL	Potand
BJ	Besin	JP	Japan	PT	
68	Bosil	KE	Kerra	RO	Portugal Romania
BY	Belanus	KG	Kyrgystan	RU	Russian Federation
CA	Crosts	KP			
ä	Central African Republic	N.	Democratic People's Republic	50	Soden
œ		_	of Kores	SE	Swedea
Œ	Congo	XX	Republic of Korea	SG	Singapore
	Switzerland	KZ	Kezekhetan	S	Slovenia
a.	Citta d'Inoise	u	Liccitoratein	SX	Slovakia
CM	Сагастобо	LK	Sri Lerica ,	5 N	Senegal
CN	China	LR	Liberia	SZ.	Swazikad
cs	Czachoslovakia	LT	Lithuania	TD	Ched
Œ	Crock Republic	w	Lexembourg	TG	Togo
DE	Germany	LV	Latvia	Tj	Tulkkan
DK	Donmark	MC	Monaco	TT	Tribidad and Tobago
EE	Estonia	MD	Republic of Moldova	UA	Ukraine
25	Spein	MG	Madagancer	UG	Uganda
n	Pinland	ML	Mall	US	United States of America
72	Prence	MN	Mongolia	UZ	Uzhekistan
GA	Osbos	MR	Marriania	VN	Viet Nam